

MULTIPLE OUTPUT DUAL RANGE SWITCHING DC POWER SUPPLY

SPS-3606

SPS-3606 Switching mode DC power supply provides 375W output capacity with three independent outputs and CH1/CH2 dual-range output (30V/ 6A or 60V/3A), which accommodates a wide range of applications.

On the basis of fixed output capacity, it enables output voltage or current to the maximum. With high power density and high conversion efficiency, multiple protections, high reliability, low noise and compact design, SPS-3606 is completely adequate for satisfying mainstream power supply demands.



Features

- Three independent & isolated output : CH1/ CH2 dual range output of 30V/6A or 60V/3A
CH3 0.1~5V/3A, adjustable output
- Constant voltage and constant current operations
- Auto Series and Parallel tracking operations providing flexible output of 30V/12A, 60V/6A or 120V/3A
- High power conversion efficiency by improving the power efficiency by 25%
- Manual and remote ON/OFF control
- Manual over voltage protection
- Over voltage, over load, over temperature and reverse polarity protections
- Power source AC115V/230V auto switch
- Fan speed control circuit to minimize acoustic noise
- Compact design and light weight

Technical Specification

SPS-3606

Output		
CH1 & CH2	Independent mode	0~30V/0~6A; 0~60V/0~3A
	Series mode	0~60V/0~6A; 0~120V/0~3A
	Parallel mode	0~30V/0~12A; 0~60V/0~6A
CH3		0.1~5V/3A
Constant voltage operation		
Line regulation	≤0.01%+3mV	
Load regulation	≤0.01%+5mV (rating current≤6A); ≤0.01%+8mV (rating current≤12A)	
Riple & Noise	≤5mV rms (5Hz~1MHz); ≤50mVpp (20Hz~20MHz)	
Recovery time	≤100us (50% load change, minimum load 0.5A)	
Constant current operation		
Line regulation	≤0.2%+3mA	
Load regulation	≤0.2%+3mA	
Riple & Noise	≤3mA rms	
Tracking Operation		
Tracking error	≤(0.5%+10mV) of the master	
Series regulation	≤300mV	
Riple & Noise	≤10mVrms (5Hz~1MHz); ≤100mVpp (20Hz~20MHz)	
Output On/Off Response Time		
Voltage up(10%~90%)	≤100ms (≤95% rated load)	
Voltage down(90%~10%)	≤100ms (≥10% rated load)	
CH3 output		
Output voltage	0.1~5V, adjustable	
Output current	3A	
Protection	Over voltage, over load, over temperature and reverse polarity protections	
Over voltage protection		
Accuracy	±(0.5% reading+0.5V)	
Display		
Meter	3 ^{1/2} digits0.39" LED display	
Resolution	100mV/10mA	
Accuracy	±(0.5% reading +2 digits)	
Protection	Over voltage and reverse polarity protections	
Remote control	Output On/Off	
Fan noise	≤50dB	
Temperature co-efficient	Voltage: ≤100ppm/°C+3mV	
	Current: ≤150ppm/°C+3mA	
Insulation	Between chassis & terminal: ≥100MΩ/1000VDC	
	Between chassis and AC code:≥100MΩ/1000VDC	
Operating environment	Ambient temperature: 0~40°C	
	Relative humidity: ≤80%	
Storage environment	Ambient temperature: 0°C~70°C	
	Relative humidity:≤70%	
Power source	AC 115V/230V±15%, 50/60Hz	
Accessories	Operation manual ×1, Power cord ×1, Test lead ×1	
Dimension & Weight	310×250×150mm, 5.5Kg	